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Application No. 10/677,694  
Docket No. IB-8 (A4-1770)  
Amendment dated June 6, 2007  
Reply to Office Action of February 8, 2007

**Amendments to the Claims:**

This listing of claims will replace all prior versions, and listings, of claims in the application.

**Listing of Claims:**

Claim 1 (Currently amended): A system for monitoring one or more physiological parameters for diagnosis of congestive heart failure within a patient, said system comprising:

at least one sensing device adapted to be implanted in a cavity of the patient's cardiovascular system, said sensing device comprising an anchoring mechanism, at least one inductor coil and at least one sensor, with optional electronic components, said anchoring mechanism comprising a portion for passing through a septum of the heart, means adapted for opening on at least one side of the septum, and means adapted for clamping said implantable device to the septum, said at least one sensing device being implantable so that said portion ~~a portion~~ of said anchoring mechanism passes through the septum ~~a septum of the heart~~ and, to minimize the risk of thrombogenicity, a larger portion of said implantable sensing device is located in the right side of the heart and a smaller portion of said implantable sensing device is located in